

INDEX TO VOLUME XLVII

ARTICLES	Page	ARTICLES	Page
Abstracts and References 57, 120, 180, 242, 346, 511, 573, 636, 697, 762, 824		Factory Layout Planning	18
Activity Sampling and the Travel Chart	601	Factory Trucks and Mine Cars, Rubber Suspension for	597
Aggregate Claimed from Sea	142	Fertilizer Industry, Conveying in the	778
Alumina Powder, Fluidized at a Handling of	126	Fertilizer Plant, Mechanical Handling at	136
Experiment in Education	812	Fibre-glass Mat, Continuous Processes in the Production of	314
Animal Feeding Stuff, Package Unit Milling or	743	Fish Processing Factory, Overhead Conveyors in a	799
Application of Vibratory Power to Mechanical Handling, The	132	5½-Mile-Long Belt Conveyor System	680
Automatic Handling in Electric Lamp Production	462	Flexible and Safe Electrical Power Distribution	448
Automatic Handling of Timber	642	Fluidized Handling of Alumina Powder	126
Automatic Hardening and Tempering of Carbide Barrel Forgings	437	Ford Motor Co., Ltd., Integrated Materials Handling at the	143
Automatic Loading and Unloading for Bright Cadmium Plating Plant	789	Forgemasters' Fleet of Forty Fork Trucks	211
Automatic Plant for Bulk Storage and Handling of Ingredients at a Biscuit Factory	770	Fork Lift Transporters, Heavy-Duty Side Operating	225
Automatic Plating Plant	158	Fork Lift Truck Efficiency, Improving	460
Automatic Process Plant, Skip Hoist Application to	193	Fork Trucks Redesigning, Conveyancer	321
Automatic Sampling, Towards Automation with	459	Fork Trucks Save Time and Space in Ice Cream Store (T. Wall & Sons)	615
Bags, Handling Products in	84	Foundry, Materials Handling and Automation in the	543
Banana Warehouse, Conveyor Installation in a	30	Free Moving Equipment for Bulk Material Handling	110
Benedictine, Handling in the Production of	333	Freight Handling, Simplified	768
Biscuit Factory, Automatic Plant for Bulk Storage and Handling of Ingredients at a Body Trim Tracks at Longbridge	538	Fully Automatic Control of Paint Shop Conveyors at French Motor Car Factory (Simca)	606
Bottling Plant, Mechanized	580	Fuel Handling Machinery for Berkeley	186
Brewery Empties and Fulls Handled Without Hands	667	Fully Automatic Heat Treatment Line	619
British Road Services, Handling Techniques	13	Giant Ball Bearings for Dockside Crane	795
British version of the 'Trojan' Tractor	729	Glass, A Conveyor for	66
Brooke Bond, Tea Handling at Manchester Warehouse of	740	Grader, Sheet Metal	167
Bulk Salt Cargo Handling	4	Greenock, £1,000,000 Refinery at	76
Bulk Salt Stockpile Handling	138	Handled Without Hands, Brewery Empties and Fulls	667
Bunker Train in Tunnelling and Mining	655	Handling and Transporting Equipment, Train Batteries or Electric	783
Butyl Rubber, Introducing	44	Handling, Crane for Container	232
Capacity Stacking Carrier, 50,000-lb	77	Handling with Industrial Trucks	37
Carbide Barrel Forgings, Automatic Hardening and Tempering of	437	Part 4	69
Conveyor Drive, New Double-Drum	738	Part 5	69
Conveyor for Glass, A	266	Part 6	159
Car Park for London, Mechanical	607	Part 7	201
Concrete Plant, Ready-mixed	314	Part 8	483
Continuous Processes in the Production of Fibre-glass Mat	727	Handling of Leaf Tobacco	330
Conveyancer Fork Trucks Redesigning	321	Handling Milled Peat at Power Stations—	466
Conveying in the Fertilizer Industry	778	Part 1	529
Conveyor Belting with Corrugated Sides	522	Part 2	529
Conveyor Drive, Simplified	339	Handling in the Production of Benedictine	333
Conveyor Installation in a Banana Warehouse	30	Handling Products in Bags	84
Conveyor, Sinks by	656	Handling in a Shirt Factory	775
Conveyor System, 5½-Mile-Long Belt	680	Handling Stores for Self Service	107
Conveyors and Elevators, 'Non-fixed'	99	Handling Techniques in British Road Services	13
Conveyors in the Ice Cream Industry	218	Heat Treatment Line, Fully Automatic	619
Conveyors, Passenger	80	Heating Engineers Install Stock Control System	227
Couplings, Induction	82	Heavy-Duty Side Operating Fork Lift Transporters	225
Crane Builder and Shipbuilder Combine to Achieve Prefabrication on a Grand Scale	720	Hydraulic Luffing Gear on Dockside Crane	329
Crane Climber, Linden	800	Ice Cream Industry, Conveyors in the	218
Crane for Container Handling	322	Ice Cream Store, Fork Trucks Save Time and Space in Ice Cream Store (T. Wall & Sons)	615
Cone Hydraulic Luffing Gear on Dockside	329	Improving Fork Lift Truck Efficiency	460
Cone, 200-ton Floating	651	Industrial Couplings	82
Dennis Aircraft Loader, The	675	Industrial Truck or Industrial Necessity, The	551
Dillery, Mechanization at a New	196	1960 John Morris Memorial Winning Essay)	551
Dockside Crane, Giant Ball Bearings for	795	Integrated Materials Handling at the Ford Motor Co., Ltd.	143
		Introducing Butyl Rubber	44
		Iron Ore Preparation	518
		Japanese Material Handling Study Team, Visit of	12
		Lansing Bagnall Rapide	440
		Leeds Mechanical Parcels Sorting Office	645
		Linden Crane Climber	800
		Liverpool, New 'Universal' Digger	675
		Loader, The Dennis Aircraft	452
		Log Handling at Pulp Mill	791
		London's Moving Pavement	538
		Longbridge, Body Trim Tracks at	538
		Mass Assembly of Television Receivers	704
		Material Handling, Free Moving Equipment for Bulk	110
		Materials Handling and Automation in the Foundry	543
		Materials Handling in a Heavy Engineering Plant	25
		Materials Handling, Special Vehicles for	219
		Mechanical Car Park for London	207
		Mechanical Handling, The Application of Vibratory Power to	132
		Mechanical Handling at Modern Sugar Refinery	208
		Mechanical Handling at New Fertilizer Plant	136
		Mechanization at a New Distillery	196
		Mechanized Body Plant	475
		Mechanized Limestone Quarry	655
		Mining, Bunker Train in Tunnelling and	551
		Morris Memorial Winning Essay, 1960, John	606
		Motor Car Factory, Fully Automatic Control of Paint Shop Conveyors at French (Simca)	738
		New Double-Drum Conveyor Drive	671
		New Plant for Screening, Storage and Automatic Grading	718
		New 'Universal' Digger Loader	99
		'Non-fixed' Conveyors and Elevators—	99
		One Reach Truck Serves Large New Depot—	717
		Overhead Conveyors in a Fish Processing Factory	799
		Overhead Cranes with Pneumatic Tyres	622
		Package Unit Milling for Animal Feeding Stuff	743
		Parcels Sorting Office, Leeds Mechanical	645
		Passenger Conveyors	80
		Pavement, London's Moving	791
		Peat at Power Stations, Handling Milled—	466
		Part 1	529
		Part 2	529
		Planning, Factory Layout	18
		Plant, Track Reconditioning	343
		Plating Plant, Automatic	158
		Plating Plant, Automatic Loading and Unloading for Bright Cadmium	789
		Pneumatic Tube System, Ring Main	62
		Pneumatic Tyres, Overhead Cranes with	622
		Power Distribution, Flexible and Safe Electrical	448
		Prefabrication on a Grand Scale, Crane Builder and Shipbuilder Combine to Achieve	720
		Preparation, Iron Ore	518
		Pulp Mill, Log Handling at	452
		Quarry, Mechanized Limestone	475
		Railway Wagon Lift	29
		Rande, Lashing Baggage	440
		Reach Truck Serves Large New Depot—	717
		Ready-Mixed Concrete Plant	727
		Refinery at Greenock, £1,000,000	76
		Reliance 'Cub' in Action, The	809
		Requirements of the Shipping Industry	453
		Ring Main Pneumatic Tube System	62
		Rotary Filler, Exact Volume	345
		Rubber Suspension for Factory Trucks and Mine Cars	597
		Salt Cargo Handling, Bulk	438
		Salt Stockpile Handling, Bulk	138
		Screening, Storage and Automatic Grading, New Plant for	711
		Sea, Aggregate Claimed from	142
		Selling to Western Germany	47
		Sequence Control Panel at Sugar Factory	456
		Sheet Metal Grader	167
		Shirt Factory, Handling in a	775
		Shovel, Two New Loading	339
		Simplified Conveyor Drive	339
		Simplified Freight Handling	768
		Sinks by Conveyor	656
		Skip Hoist Application to Automatic Process Plant	193
		Special Vehicles for Materials Handling	219
		Stacking Carrier, 50,000 lb Capacity	77
		Stock Control System, Heating Engineers Install	227
		Stores for Self Service, Handling	107
		Sugar Factory, Sequence Control Panel at	456
		Sugar Refinery, Mechanical Handling at a Modern	208
		Sugar at 10 Hundredweight a Minute	588
Education, An Experiment in	812		
Electric Lamp Production, Automatic Handling in	462		
Electro-Hydraulic Tail Lift, An	446		
Engineering Plant, Materials Handling in a Heavy	25		
Exact Volume Rotary Filler	345		

	Page
Tail Lift, An Electro-Hydraulic.....	446
Tea Handling at Manchester Warehouse of Brooke Bond.....	740
Television Receivers, Mass Assembly of.....	704
Timber, Automatic Handling of.....	642
Tobacco, Handling of Leaf.....	330
Towards Automation with Automatic Sampling.....	459
Track Reconditioning Plant.....	343
Traction Batteries for Electric Handling and Transporting Equipment.....	783
Travel Chart, Activity Sampling and the 'Trojan' Tractor Shovel, British Version of.....	729
Trucks, Forgemasters' Fleet of Forty Fork Two New Loading Shovels.....	211
Trucks, Handling with Industrial—	
Part 4.....	37
Part 5.....	69
Part 6.....	159
Part 7.....	201
Part 8.....	483
200-ton Floating Crane.....	651
Ultra-Modern Mill in Northern Ireland.....	341
Visit of Japanese Material Handling Study Team.....	12
Wagon Lift, Railway.....	29
Western Germany, Selling to.....	47

AUTHORS

Bailey, L. W., F.R.Econ.S., A.M.I.Prod.E.....	18
Beskin, J. M., B.Sc.(Eng.).....	4, 99, 138, 522
Bunn, R. J.....	551
Bushell, E., A.M.I.Mech.E.....	126
Clearse, A. G. Douglas, B.Sc., A.M.I.Mech.E.....	66, 538
Coakley, S. F., B.E., B.Sc.....	466, 529
Duley, R. D.....	459
Evans, A. E. C.....	333
Foalle, R. D. T.....	460
Gaudreau, A. T.....	667
Goodman, L. Landon.....	543
Greene, D. E., A.M.I.Prod.E., A.M.B.I.M.....	601
Grindrod, J., B.A.(Com.).....	136, 208
Gronback, F.....	740
Highgate, T. W.....	89
Hoefkens, L. J., A.I.Prod.E.....	37, 69, 159, 201, 483
Kelly, A. G., B.E., A.M.I.Mech.E., M.A.S.M.E.....	466, 529
Latham, John D., A.M.I.Plant.E.....	132
Lawrence, H. M., M.I.Mech.E., A.M.Inst.Gas E.....	219
Lister, D. J., B.A.(Cantab.).....	812
Lloyd, Henry L.....	795
MacCulloch, P. C.....	143, 211
Marjoribanks, J. A. M.....	47
Maskell, R. C.....	126
Mumby, K.....	606, 729
Parnall, C. E.....	196, 717, 770
Potter, D. M., B.A.(Oxon.).....	580, 656, 800
Richards, C. C., A.M.I.Mech.E.....	783
Salter, Richard J., B.Sc.(Eng.), A.M.I.C.E., A.M.I.Mun.E.....	680
Sanders, P. M., M.I.Mech.E., M.Inst.T., F.B.I.M.....	339, 462, 588, 704
Schmoll, Karl.....	651
Seiler, William.....	778
Strong, A. G., M.Sc.....	44
Vallings, H. G., A.M.I.Mech.E.....	84, 314, 645, 775
Winfield, O., M.I.Plant.E.....	193
Wolpert, V.....	25

BOOKS REVIEWED

Colliery Year Book and Coal Trades Directory, 1960.....	744
Dictionary of Mechanical Engineering Terms.....	686
Electrical Who's Who 1960-61.....	686
Fluid Power Control.....	605
Hydraulic Handbook.....	744
Industrial Packaging.....	686
Mechanics of Materials.....	744
Numerical Methods for High-Speed Computers.....	605
Plastics Progress 1959.....	744
Process Integration and Instrumentation.....	744

British Materials Handling Equipment Overseas

Boydell, E. & Co., Ltd.....	50
Bray Construction Equipment, Ltd.....	688
British Ropeway Engineering Co., Ltd.....	564
Collis, J. & Sons, Ltd.....	50
Conveyancer Fork Trucks, Ltd.....	49, 166, 230, 318
Conveyors (Ready Built), Ltd.....	165
Fraser & Chalmers Engineering Works.....	627
General Electric Co., Ltd.....	565
Goodyear Tyre & Rubber Co., Ltd.....	627, 688
International Harvester Company of Great Britain, Ltd.....	49, 165, 230, 565, 626
Meadows, Henry, Ltd.....	687
Morris, Herbert, Ltd.....	47, 166
Parker, Frederick, Ltd.....	318, 564
Perkins Engines, Ltd.....	688
Ransomes & Rapier, Ltd.....	231, 318, 564
Ropeways, Ltd.....	230
Ransomes, Sims & Jefferies, Ltd.....	50, 165, 231, 565, 627, 687
Steels Engineering Products, Ltd.....	166, 231, 319, 565
Teleflex, N. V.....	319
Weatherill, F. E., Ltd.....	627
Yale & Towne Manufacturing Co., The.....	319

CORRESPONDENCE

Clayton, M. T.....	749
Pictou, W. G.....	749
Shields, H. F. H., O.B.E.....	749
Chalmers, O. S.....	686
Chamberlain, Leslie F.....	48
Champion, A. M., M.B.E.....	625
Chapman, W. U.....	624
Clark, Michael.....	752
Clayton, M.....	234
Coles, A. T.....	624
Collins, S. G.....	563
Cook, J. S. D.....	624
Cooke, R., B.A.(Lond.), M.I.E.....	815
Crichton, David.....	814
Crome, E.....	814
Cunningham-Bruce, The Hon. Francis, C.M.G.....	113
Cunningham, M. T., B.Sc.....	686
Darnell, H.....	685
Dearden, W. R., A.M.I.Mech.E.....	234
Dickinson, S.....	235
Dixon, A. N.....	169, 624
Dixon, Guy.....	816
Doak, Sir James.....	563
Dolphin, John.....	752
Dolphin, J. R. V.....	234
Doust, G. H.....	563
Ellison, V. F.....	686
Elton, Arthur.....	170
Everard, Laurie F.....	500
Eyre, R.....	169
Finch, C. F.....	624
Firth, J.....	49
Fleming, P. E.....	816
Flynn, James G.....	624
Foster, S. H.....	234
Frankle, L. A.....	113
Franks, Frederick.....	170
Frost, R. C.....	624
Fry, Wilfrid J., A.M.Brit.I.R.E.....	685
Frymire, H. D.....	508
Gill, Alan S.....	815
Godfrey, A. B.....	624
Godfrey, S. S., A.M.I.E.E., A.M.A.I.E.E.....	816
Goldsmith, J. H.....	113
Gomm, B. A.....	170
Gregg, A. E.....	625
Gregory, H. W.....	751
Greves, W. R.....	686
Griffiths, C. W.....	624
Grossmith, G. W., M.I.Mech.E.....	625
Hackett, W. W., Snr., C.B.E.....	625
Hall, Maurice S.....	500
Halsbury, Lord.....	624
Hamilton, Peter.....	169
Hampshire, E.....	685
Hancock, Ernest W., O.B.E., M.I.Mech.E., Hon.M.I.Prod.E.....	750
Handley, D., B.Sc.....	686
Haney, David C.....	500
Harper, Lionel.....	563
Harvey, G. F. B.....	234
Harvey, R. D., A.M.I.Mech.E.....	624
Haugh, W. H.....	234
Hawes, A. L.....	500
Hayes, A.....	686
Hayman, Sir Graham.....	624
Heatley, R. P.....	169
Henderson, H. M.....	751
Hewlett, C. F.....	50
Heywood, W. J.....	11
Hide, R. F.....	23
Hill, Philip S.....	625
Hinder, H. C.....	625
Hollingsworth, P. M., M.Eng., M.I.E.E., M.A.M.I.E.E.....	68

LOOSE INSERTS

'At-a-Glance' list of British-made Fork Lift Trucks.....	(Sept.)
'At-a-Glance' list of British-made Mobile Loading Shovels.....	(April)

Mechanical Handling Exhibition and Convention

Among the Visitors.....	430
Classified Guide to Manufacturers' Products.....	488
Cocktail Party.....	435
Equipment Displayed.....	353
Exhibition You Must Not Miss, The.....	245
Facilities for Visitors at the Exhibition.....	260
Film Programmes.....	260
Mechanical Handling Joint Industries Committee, The.....	313
Models on Show.....	427, 501
Names and Addresses of Exhibitors.....	248, 556
Plans of Exhibition.....	256
Press Conference on Mechanical Handling Exhibition.....	320
Preview of Exhibits.....	262
Solving a Handling Problem.....	639
Supporting Associations.....	432
Third Mechanical Handling Gala Ball, The.....	434

NEWS ITEMS

Brewing, Bottling and Allied Trades Exhibition.....	682
Demonstration of Heavy-Duty Side-operating Fork Lift Transporters.....	727
Farnborough Air Display and Exhibition.....	745
Industrial Efficiency and Safety Exhibition.....	28
Materials Handling Equipment at the 1959 Building Exhibition.....	89
Mechanical Handling and Refrigeration Exhibition at Sheffield.....	804
The 'Cleco' Family and Technical Set-Up.....	748

NEWS OF PERSONALITIES

Adams, C. F.....	48
Adams, Colonel P. A., B.A.....	563
Allin, C. W.....	625
Anderson, D. G.....	751
Ashton, Geoffrey B., A.M.I.Mech.E.....	235

Bache, F. Eric L.....	563
Bache, R. Philip S.....	563
Bailey, L. W.....	814
Baird, Kenneth.....	112
Baird, R. G.....	562
Barker, H. P., M.Inst.Gas E., M.I.E.E., M.I.Mech.E., M.Inst.T., F.B.I.M.....	815
Barrie, J. P.....	234
Barton, A.....	48
Barton, R. W.....	563
Bass, B. S.....	503
Bates, F. W.....	624
Bealing, Ernest.....	816
Beebee, George.....	563
Bickley, D. J., A.M.I.Mech.E.....	685
Billington, C. W.....	234
Black, E. H.....	752
Blakeborough, J. Boyd.....	170
Booth, W. R.....	751
Bourne, General Sir Geoffrey, K.C.B., K.B.E., C.M.G.....	562
Bowers, D. R.....	169
Bramham, Harry.....	500
Brocklesby, Malcolm.....	751
Bromley, N. P.....	685
Brough, J. S., M.I.Chem.E., M.I.Mech.E., M.Inst.F., F.Inst.Pet.....	815
Brown, A.....	500
Brownett, E. H.....	169
Bright, J. S.....	234
Brinyee, H. R.....	625
Brown, R. O.....	815
Brown, S. J.....	234
Chalmers, O. S.....	686
Chamberlain, Leslie F.....	48
Champion, A. M., M.B.E.....	625
Chapman, W. U.....	624
Clark, Michael.....	752
Clayton, M.....	234
Coles, A. T.....	624
Collins, S. G.....	563
Cook, J. S. D.....	624
Cooke, R., B.A.(Lond.), M.I.E.....	815
Crichton, David.....	814
Crome, E.....	814
Cunningham-Bruce, The Hon. Francis, C.M.G.....	113
Cunningham, M. T., B.Sc.....	686
Darnell, H.....	685
Dearden, W. R., A.M.I.Mech.E.....	234
Dickinson, S.....	235
Dixon, A. N.....	169, 624
Dixon, Guy.....	816
Doak, Sir James.....	563
Dolphin, John.....	752
Dolphin, J. R. V.....	234
Doust, G. H.....	563
Ellison, V. F.....	686
Elton, Arthur.....	170
Everard, Laurie F.....	500
Eyre, R.....	169
Finch, C. F.....	624
Firth, J.....	49
Fleming, P. E.....	816
Flynn, James G.....	624
Foster, S. H.....	234
Frankle, L. A.....	113
Franks, Frederick.....	170
Frost, R. C.....	624
Fry, Wilfrid J., A.M.Brit.I.R.E.....	685
Frymire, H. D.....	508
Gill, Alan S.....	815
Godfrey, A. B.....	624
Godfrey, S. S., A.M.I.E.E., A.M.A.I.E.E.....	816
Goldsmith, J. H.....	113
Gomm, B. A.....	170
Gregg, A. E.....	625
Gregory, H. W.....	751
Greves, W. R.....	686
Griffiths, C. W.....	624
Grossmith, G. W., M.I.Mech.E.....	625
Hackett, W. W., Snr., C.B.E.....	625
Hall, Maurice S.....	500
Halsbury, Lord.....	624
Hamilton, Peter.....	169
Hampshire, E.....	685
Hancock, Ernest W., O.B.E., M.I.Mech.E., Hon.M.I.Prod.E.....	750
Handley, D., B.Sc.....	686
Haney, David C.....	500
Harper, Lionel.....	563
Harvey, G. F. B.....	234
Harvey, R. D., A.M.I.Mech.E.....	624
Haugh, W. H.....	234
Hawes, A. L.....	500
Hayes, A.....	686
Hayman, Sir Graham.....	624
Heatley, R. P.....	169
Henderson, H. M.....	751
Hewlett, C. F.....	50
Heywood, W. J.....	11
Hide, R. F.....	23
Hill, Philip S.....	625
Hinder, H. C.....	625
Hollingsworth, P. M., M.Eng., M.I.E.E., M.A.M.I.E.E.....	68

Page		Page
563	Hollingsworth, B., A.M.I.E.E.	624
563	Holmes, A. H., A.C.A.	814
814	Holt, A. H.	816
112	Horn, T. M.	112, 686
562	Hosch, J. W.	112
	Howe, W.	500
815	Hunter, P. D.	48
234	Huston, F. C.	624
563		
50	Ingham, Leslie, A.M.I.E.E., M.A.M.E.M.E.	48
624	Inglis, A. E., B.Sc.(Eng.)	815
816		
563	Jackson, Sir Willis, F.R.S.	685
685	Jenner, H. R.	235
234	Jessop, A. F.	562
752	Johel, M. L., O.B.E., A.M.I.E.E.	500
113	Johnson, Professor D. C.	686
751	Johnson, Professor D. C.	500
562	Jones, J. F.	235
109	Jones, Kenneth.	624
50	Jones, W. T.	686
751	Jordison, F.	624
685		
815	Kavanagh, E.	751, 815
50	Kaye, E.	234
109	Kates, R. L. E.	815
234	Kelsey, T. H.	624
625	King, Hartford M.	170
815	Kingsdon, P. A.	624
234	Kirton, A. W.	170
	Kobert, Dr. Karl.	685
686		
48	Lambert, V. A. G.	234
625	Lavender, Paul.	169
624	Lease, Leonard P.	624
752	Lasley, Jonathan H.	170
234	Lennox-Boyd, A. T.	235
624	Lewis, Jack F.	563
563	Lloyd, F. S.	685
624	Lloyd, L. A.	169
815	Longley, W. H.	625
814	Lowe, John.	624
814	Lowe, K. A., B.Sc.(Eng.), A.C.G.I.	500
113	Lunn, J.	624
686		
685	Mader, Hans.	169
234	Marchant, G. H.	751
9, 624	Marles, Alan J.	170
816	Marshall, R.	686
563	Martin, P. Mc. A.	685
752	Matterson, William Colley Monckton	685
234	Mercer, J. R.	686
563	Milwen, Ewen.	235
	Mercallie, M. A. L.	624
686	Miller, R. N.	234
170	Molesworth, E. W.	686
500	Moore, Matthew Reid.	235, 625
169	Morton, J. C.	113
	Mott, H. P., M.I.Prod.E.	112, 234
624	Mousley, Gerry.	500
48	Muir, W.	752
816	Mumby, J. L.	751
624	Munck, F. J.	816
234	Munck, O. A.	816
113	Munck, S. M. K.	816
170	Munck, T. A.	816
624		
685	Noren, Ralph.	686
50		
815	Odd, R. S.	234
624	Oliver, S. H.	686
113	O'Shea, J. P.	562
625		
816	Pace, A. S.	814
625	Parker, F.	752
170	Parker, Leslie.	751
751	Parkes, E. G.	235
686	Parkinson, J. D.	562
624	Parnham, Fred.	500
625	Pearson, F. J.	500
	Pearson, J. T.	624
625	Peat, J. B., A.C.A.	112, 234
625	Perkins, T. H. R.	685
50	Perry, Sir Donald, K.B.E.	751
624	Perris, Arthur.	751
169	Phillips, G. H.	113
685	Powman, J. W.	500
751	Price, V. C.	816
686	Richard, M. L.	235
500, 563		
625	Reester, C. W.	112
234	Reim, Charles A.	169
624	Richards, P. O., A.M.I.Mech.E.	816
234	Ridley, J. W.	816
50	Ridley, J. W.	563
686	Ridley, R.	814
624	Roberts, L. G. T., M.Inst.B.E. Assoc.I.E.E.	625
169	Robertson, G. P., 'Robbie'	752
685	Robinson, Eric A., M.C., M.I.Mech.E.	48
751	Rougiers, J.	624
50	Rumley, L.	235
113		
234	Sanderson, T.	685
625	Seeds, C. G.	500
686	Sharp, C. W.	235
68	Sharp, John R.	234, 752

Page		Page
	Shelley, Ben R.	48
	Shields, H. F., O.B.E.	234
	Silk, P. B.	235
	Smith, George A.	752
	Smith, G. E.	685
	Sowman, A. V.	170
	Steeley, D. N.	112
	Stevenson, A. F.	170, 624
	Streets, H.	685
	Summerfield, L. E.	235
	Sutcliffe, Geoffrey	169
	Sykes, Arthur, O.B.E., B.Sc., Wh.Ex., M.I.Mech.E., M.I.P.E., M.S.A.E.	563
	Taylor, J. H.	685
	Thickett, G.	685
	Tichelly, L. V.	170
	Tidbury, E. J.	235
	Tombleson, A. W.	112
	Townsend, K. R.	816
	Tudor, J. M.	48
	Tunbridge, J. S.	624
	Upton, V. G. A.	624
	Verrey, M. J.	751
	Verguson, R. E., M.S.M.A.	48
	Vilven, J. H.	751
	Vine, J. H.	685
	Wallis, Claude E., M.B.E.	562
	Ward, Alan.	563
	Warr, L. D.	113
	Weatherspoon, T. A.	235
	Wells, J. C.	169
	West, Tom.	563
	Whincup, Peter	815
	Wild, C. D.	170
	Willelts, Dr. B. F., Ph.D., M.Sc., A.M.I. Mech.E., M.I.Plant.E.	235
	Williams, Leslie.	113
	Willsher, W. L.	562
	Wilson, Frank.	751
	Winton, R. G.	234
	Wood, R.	562
	Wood, A. E.	235
	Woollatt, K. E.	235
	Worboys, Sir Walter	235, 624
	Wright, Bernard.	563
	Wright, R. D.	624
	Yarnold, G. H.	686

OBITUARIES

Archer, F. C.	563
Dakin, R. B.	48
Diggins, A. E.	686
Frankland, C. H., M.I.E.E.	563
Grainger, W. M.	500
Handover, Jack.	752
Hayman, Lew.	48
Hexter, Irving B.	563
Hill, James.	500
Thomson, James.	113

PUBLICATIONS RECEIVED

Ab Bygg-och Transportekonomi (Rolatru, Ltd.).	56
Adams Bros. & Burnley, Ltd.	57
Aluminized Asbestos (Turner Brothers Asbestos Co., Ltd.).	761
Angus, George & Co., Ltd.	179, 242
Angus Gear Book (Geo. Angus & Co., Ltd.).	56
Asea Journal	761
Association of Consulting Engineers	572
Aveling-Barford, Ltd.	573
Aveling-Barford News	761
Ayrshire Industrial Brochure (Ayr County Council)	672
Barimar, Ltd.	179
Batching Plant (Thos. W. Ward, Ltd.).	242
British Productivity Council	179
Broughton, J. & Son (Engineers), Ltd.	573
Brown, W. W. & Partners, Ltd.	572, 761
Butterfield News (W. P. Butterfield, Ltd.).	57
Carter, B. & F. & Co., Ltd.	242
Civil Engineering (Hansom Books, Ltd.).	242
Cleaver-Hume Press 1960 Catalogue	572
Clyde Crane & Booth, Ltd.	179
Coal: The Price Structure (Federation of British Industries)	761
Conveyancer Fork Trucks, Ltd.	696, 761
Co-operation at Wandsworth (Henry Simon, Ltd.).	572
Crofts (Engineers), Ltd.	56, 180
DCMC Industrial Aerosols (DCMC Industrial Aerosols, Ltd.).	572
Desoutter Bros., Ltd.	696
The Digger (Ruston-Bucyrus, Ltd.).	179
Dock and Harbour Authorities' Association	573
Durgapur Steelworks (ISCON)	696

Page		Page
	Eimco	672
	Elcontrol, Ltd.	180, 572
	Elliott Automation	696
	Enchiridion (Firth-Vickers Stainless Steels, Ltd.)	180
	Engineers Buyers' Guide 1960, The	573
	English Electric Co., Ltd., The	57
	'EUC' News (Blackwood Hodge)	242
	European Technical Digest	57
	Exporting to the Middle East (Board of Trade)	57
	Fielden Electronics, Ltd.	761
	Films (Massey-Ferguson (Great Britain), Ltd.)	179
	Flexibox Mechanical Seals (Flexibox, Ltd.)	179
	Fowler, John, & Co. (Leeds), Ltd.	242
	Fuel Abstracts and Current Titles (The Institute of Fuel)	572
	Fuller Airmerge System (The Fuller Co.)	179
	Getting Together (Richard Sutcliffe, Ltd.)	572
	Goodyear Industrial Products News	696
	Goodyear Industrial Rubber News	180
	Gourco Ropework Co., Ltd., The	572
	Groundhog Gazette (Marion Power Shovel Co.)	179
	H.M.C. Wheels, Ltd.	761
	Harvester Round (International Harvester Co. of Great Britain, Ltd.)	572
	Higgs Motors, Ltd.	57
	Honeywell Micro Switches (Honeywell Controls, Ltd.)	572
	Hydraulic Coupling and Drives (Crofts (Engineers), Ltd.)	242
	Hydraulic Oils (Wakefield-Dick Industrial Oils, Ltd.)	696
	Incanescent Heat Co., Ltd., The	572
	Inco-Mond Magazine No. 14	572
	Industrial Hydraulics, Ltd.	573
	International Combustion Products, Ltd.	696
	Jenkins, W. J., & Co., Ltd.	179
	Journal of Applied Pneumatics, The (Martonair, Ltd.)	180
	Keir & Cawder News	56
	Lancashire Dynamo & Crypto, Ltd.	242
	Lancashire Dynamo Electronic Products, Ltd.	696
	Link-Belt Industries, Ltd.	572
	Link-Belt Co., Ltd.	179, 242
	Lyons, Arthur & Co. (Engineers), Ltd.	761
	Lyons, Claude, Ltd.	242
	Machine Tools (A. A. Jones & Shipman, Ltd.)	572
	Mackay of Feltham	242
	Mechanical Handling Equipment (Association of Swedish Manufacturers of Mechanical Handling Equipment)	572
	Metaletric Furnaces, Ltd.	56
	Metal Chip Handling Systems (Link-Belt Co.)	696
	Mond Nickel Co., Ltd., The	57
	Monsanto Mail No. 4 (Monsanto Chemicals, Ltd.)	179
	Morris, Herbert, Ltd.	180
	Morse Chain Division, Borg-Warner, Ltd.	57
	New Henderson Derrick Crane, The (John M. Henderson & Co., Ltd.)	180
	Nickel Bulletin, The	696
	Noise in Factories (D.S.I.R.)	696
	Oil Retaining Bearings (Bound Brook Bearings, Ltd.)	573
	Overhead Runways Described (Coburn Engineers, Ltd.)	696
	Overhead Travelling Cranes (John Barnsley & Sons, Ltd.)	761
	Owen Organisation	761
	Parker Plant News (Frederick Parker, Ltd.)	179
	Pike, George, Ltd.	572
	Pitt, Charles (Barton Stacey), Ltd.	242
	Prefabricated Buildings (J. E. Lesser & Sons, Ltd.)	696
	Priestman News	761
	Ransomes & Rapier, Ltd.	180, 696, 761
	Rapid Magnetic Machines, Ltd.	180
	Roberts, J. W., Ltd.	242
	Self-Changing Gears, Ltd.	572
	'Silcoset' Silicone Rubbers (I.C.I., Ltd.)	696
	Simon Handling Engineers, Ltd.	572
	Simon, Henry (Holdings), Ltd.	179
	Simon Magazine, The (Simon Engineering Group)	57
	Soag Machine Tools	696
	Spacesaver Wedge-belt Drives (J. H. Fenner & Co., Ltd.)	761
	Steel Castings (Brown, Lenox & Co., Ltd.)	761
	Strad Project (Standard Telephones & Cables, Ltd.)	696
	Strength and Wire Ropes (Sheffield Wire Rope Co., Ltd.)	696

	Page
Technical Books for Engineers (Machinery Publishing Co., Ltd.)	696
Teleflex International News	242
Thomas Industrial Automation, Ltd.	761
Timken	573
Training Boys in Industry (The Industrial Training Council)	761
Trucks for all Purposes (Geest Industries, Ltd.)	179
Turner Bros. Asbestos Co., Ltd.	180, 242, 572
U.S. Industrial Digest	572
Ultivee Rope Drives (Crofts (Engineers), Ltd.)	761
V-belt Journal (J. H. Fenner & Co., Ltd.)	696
World of Meaning (S. Smith & Sons (England), Ltd.)	242
Year Books (Emmott & Co., Ltd.)	573

RECENT PATENTS

Recent Patents	121, 181, 243, 347, 513, 576, 637, 699, 763, 826
----------------	--

REVIEW OF NEW EQUIPMENT

Adjustable Dashpot (Kinetro, Ltd.)	51
Alcon Pump with B.S.A. Engine (Arthur Lyon & Co. (Engineers), Ltd.)	568
Articulated Diesel Dumper (C. H. Johnson (Machinery), Ltd.)	754
Automatic Door-Opening Device (Electro-Hydraulics, Ltd.)	237
Automatic Lighting Control (Londex, Ltd.)	817
Automatic Sheet Sorting and Stacking (Schloemann Aktiengesellschaft)	51
Automatic Trailer Coupling (W. C. Youngman, Ltd.)	237
Automatic Wire-Tying Machine (Gerrard Industries, Ltd.)	114
Automatically Controlled Bulldozer (Bomford & Evershed, Ltd.)	51
Basement Conveyor (V.M.E. Conveyor & Furnace Co., Ltd.)	691
Blaw Knox Paver Improved (Blaw Knox, Ltd.)	818
Braked and Steered Castor (Autoset (Production), Ltd.)	631
British Overstrom Vibrating Screens (Armstrong Whitworth (Metal Industries), Ltd.)	506
Bulk Flour Transporter (Blaw Knox, Ltd.)	692
Burtonwood Engineering Expansion (Burtonwood Engineering Co., Ltd.)	631
Castor Wheel Tyres (Revo Castor Co., Ltd.)	753
Coin Counting Machines (Coin Counting Machine Co., Ltd.)	116
Collapsible Bulk Container (I.C.I., Ltd.)	756
Concrete-Carrying Dumper Body (E. Boydell & Co., Ltd.)	566
Concrete-Handling Dumper (Thwaites Engineering Co., Ltd.)	755
Conveyor Belt Tensioner (Gordon Felber & Co., Ltd.)	820
Conveyor Belt Weighing Machine (Merrick Scale Manufacturing Co., Ltd.)	505
Crawler Tractor and Industrial Equipment (Fred Myers, Ltd.)	817
Crawler Tractor Towing Winches (Hyster Co.)	175
Direct-Acting Water Pump (Richard Sutcliffe, Ltd.)	171
Double-Acting Fluid Seal (Hall & Hall, Ltd.)	53
Dumper for Hydraulic Excavator Operation (C. H. Johnson (Machinery), Ltd.)	689
Easier Tractor Transmission Control (Caterpillar Tractor Co.)	173
Electrical Industrial Personnel Carrier (Wessex Industries (Poole), Ltd.)	238
Electrically Operated Feedometer (Adequate Weighers, Ltd.)	568
Electro-Magnetic Brake Motors (Newmans Industries, Ltd.)	172
Electro-Hydraulic Stackers (Rolatrac, Ltd.)	115
Electronic Level Indicator (Thomas Industrial Automation, Ltd.)	690
Electro-Pneumatic Material Flow Control (Lindars Automation, Ltd.)	174
Electronic Weigher (Electroweighers, Ltd.)	115

Flameproof Mines Tractor (Hunslet Engine Co., Ltd.)	754
For Easy Movement of Heavy Loads (J. Collis & Sons, Ltd.)	54
Four-Way Flexible Coupling (R. & J. Dick, Ltd.)	817
Fully Automatic Pallet Loader (Western Manufacturing (Reading), Ltd.)	52
Gas-driven Concrete Mixer (Frederick Parker, Ltd.)	173
Giant Electric Winch (R. G. Le Tourneau, Inc.)	691
Giant International Crawler Tractor (International Harvester Co. (Great Britain), Ltd.)	505
Heavy-Duty Rollover Skip (Abelson & Co. (Engineers), Ltd.)	628
High-Speed Screw Elevator (James Hodgkinson (Salford), Ltd.)	567
High-Speed Vibratory Screen (W. J. Jenkins & Co., Ltd.)	690
Hopper Level Switches (Firth Cleveland Instruments, Ltd.)	757
Hydraulic Driving Wheel (Hydrostatic Transmissions, Ltd.)	628
Hydraulic Shock Damper (Electro-Hydraulics, Ltd.)	115
Improved Dust Collector (Dallow Lambert & Co., Ltd.)	756
Improved Hydraulic Ram (Richard Sutcliffe, Ltd.)	174
Improved J.C.B. Excavator (J. C. Bamford (Excavators), Ltd.)	755
Improved Midget Hoist (Haltac, Ltd.)	689
Improved Mud Pump (C. H. Johnson (Machinery), Ltd.)	820
Intermittent Gross Weigher (Adequate Weighers, Ltd.)	819
Joy Stick Control Unit (Square D., Ltd.)	175
Light-Weight Electric Chain Hoist (Lifting Gear Products, Ltd.)	632
Low-Loading Trolley (Powell & Co.)	173
Low-Pressure Cartridge Relief Valve (The Fluid Regulators Corporation)	753
Magnetic Instrument Clutches (Crofts (Engineers), Ltd.)	506
Magnetic Separator for Fine-Mesh Materials (Rapid Magnetic Machines, Ltd.)	237
Midget Cylinders (Martonair, Ltd.)	689
Mine Tub Shake-Out (Sinex Engineering Co., Ltd.)	52
Mixer Drive Units (Highfield Gear & Engineering Co., Ltd.)	175
Mobile Lubrication for Contractors' Plant (Vigzol Oil Co., Ltd.)	631
Mobile Tower Cranes (Steels Engineering Products, Ltd.)	171, 172
Molybdenum Disulphide in Action (K. S. Paul (Molybdenum Disulphide), Ltd.)	174
Muir-Hill Loader with Power Digger (E. Boydell & Co., Ltd.)	632
Multi-Bank Hydraulic Control Valve (Joseph Young & Sons, Ltd.)	505
Multi-Purpose Crane (Abelson & Co. (Engineers), Ltd.)	754
Needle-Bearing Cam Followers (Ina Needle Bearings, Ltd.)	567
New Allis-Chalmers Loader (Mackay Industrial Equipment, Ltd.)	629
New Allis-Chalmers Tractor Shovel (Mackay Industrial Equipment, Ltd.)	753
New Caterpillar D6 Tractor (Caterpillar Tractor Co.)	504
New Electric Starters (Dewhurst & Partners, Ltd.)	172
New Electric Winch (Felco Hoists, Ltd.)	632
New Excavator and Loader (Blaw Knox, Ltd.)	504
New Fan-Cooled Motors (Higgs Motors, Ltd.)	506
New Induction Heater (Pye, Ltd.)	820
New Jones Crane (K. & L. Steelfounders & Engineers, Ltd.)	172
New Merton Frontloader (Merton Engineering Co., Ltd.)	238
New Vibratory Conveyor (Sinex Engineering Co., Ltd.)	238
1-Ton Lifting Table (J. P. Udall, Ltd.)	630
Overhead Crane Hydraulic Brake (A.E.I., Ltd.)	630
Pallet Loading Machines (Gimson & Co. (Leicester), Ltd.)	237
Paper Reel Lifting Device (International Computers & Tabulating Machines, Ltd.)	818

Pipe-Laying Winch (C. H. Johnson (Machinery), Ltd.)	757
Powered Roof Supports (Electro-Hydraulics, Ltd.)	690
Pneumatic Bin Level Controller (Henry Simon, Ltd.)	629
Pneumatic Control Valve (Stuart Davis, Ltd.)	115
Pneumatic Grain Handling (Aldersley Vacuators, Ltd.)	52
Pneumatic Pump Unit (Neumo, Ltd.)	114
Pneumatically Operated Transfer Car (The Globe Pneumatic Engineering Co., Ltd.)	236
Portable Belt Conveyors (V.M.E. Conveyor & Furnace, Ltd.)	819
Portable Conveyor-Elevator (A. L. Marshall (Carlton), Ltd.)	116
Portable Vibrating Table (Blending Machine Co., Ltd.)	692
Pump for Powdered Material (Henry Simon, Ltd.)	506
Quick-Release Self-Sealing Coupling (Super Oil Seals & Gaskets, Ltd.)	818
Rotary Air Compressor for Ruston-Bucyrus Excavator (Hymatic Engineering Co., Ltd.)	566
Rotary Torque Actuator (British Arca Regulators, Ltd.)	820
Sample Screening (Birtley Engineering, Ltd.)	566
Saving Time and Cost of Coal Screening (Frederick Parker, Ltd.)	755
Self-Dumping Hopper (T. B. Pearson & Sons (Engineers), Ltd.)	691
Self-Locking Folding Box (Granby Box Co., Ltd.)	52
Self-Priming Pump (Precision Electrical Products (Stockport), Ltd.)	238
Self-Trimming Grab (Michael & Partners, Ltd.)	818
Silicone Grease (Imperial Chemical Industries, Ltd.)	692
Slow-Speed Hydraulic Motor (Chamberlain Industries, Ltd.)	116
Spring-Loaded Stores Ladder (G. Hunter (London), Ltd.)	817
Stable Hole Conveyor (Richard Sutcliffe, Ltd.)	171
Stable Hole Conveyor (Joy-Sullivan, Ltd.)	508
Steel Sample Conveyor by Airtube (Lamson Engineering Co., Ltd.)	51
Stirred Bunker and Belt Feeder (Wm. Gardner & Sons (Gloucester), Ltd.)	628
Swivelling Twin Wheel Bracket (Autoset (Production), Ltd.)	691
Synthetic Conveyor Roll Bearing (E. Farrell & Son, Ltd.)	689
Tarred Macadam Plant Control Panel (Brook Motors, Ltd.)	630
Telescopic Stacker (Powell & Co.)	819
Terylene Reinforced V-Belts (I.C.I., Ltd.)	236
Third Wheel to Increase Compaction Width (Hyster Co.)	631
Totally Enclosed Fan-Cooled Motors (Crompton Parkinson, Ltd.)	236
Track Link Repair Kit (Bowmaker (Plant), Ltd.)	174
Tramp Iron Diverters (Rapid Magnetic, Ltd.)	504
Trolley to Save Handling Effort (Barron & Shepherd, Ltd.)	628
Universal Drum Pallet (Powell & Co.)	506
Variable-Depth Box Stillage (W. Groom, Ltd.)	53
Variable Flow Pump (Sutcliffe Hydraulics, Ltd.)	53
Vibratory Hopper (W. R. Hamilton (Plymouth), Ltd.)	67
Weigher and Bag-Filling Machine (The Richardson Scale Co., Ltd.)	506
Wire Rope Terminal (Tulloch Construction Co., Ltd.)	116

SOCIETIES AND INSTITUTIONS

Fédération Européenne de la Manutention	747
Institut of Materials Handling Annual Dinner	435
21st Anniversary of the Mechanical Handling Engineers Association	813

SUMMARY OF CONTENTS

Summary of Contents	2, 60, 124, 184
Sommaire en Français	246, 454, 516, 578
Inhaltsübersicht auf Deutsch	640, 702, 766
Sumario en Espanol	

